

المؤتمر العلمي الثاني لهيأة الطاقة الذرية العراقية البرنامج العلمي من 21 إلى 23 نوفمبر 1989م بغداد، العراق

SECOND SCIENTIFIC CONFERENCE

OF THE

IRAQI ATOMIC ENERGY COMMISSION

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PROGRAMME



BAGHDAD

THE REPUBLIC OF IRAQ

NOV. 21-23, 1989

BABYLON OBEROI HOTEL

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Organizing Committee

Dr. Ghassan H. Al-Khateeb

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Member

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Member

Dr. Khazal K. Al-Janabi

Member

Dr. Ibrahim Kh. Al- Haddad

Member

Dr. Khalid K. Al-Bayatti

Member

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General Conference Programme

Monday November 20, 1989

4:00 - 8:00 pm Registration - Babylon Hotel

Tuesday November 21, 1989

10:00 - noon Opening Ceremony

- Verses from The Holy Quran
- The Representative of His Excellency SADDAM HUSSEIN , the President of the Republic of Iraq Addressing the Conference
- The Chairman of the Organizing Committee Dr. GHASSAN H. AL-KHATEEB Addressing the Conference
- Break

- 11:00 noon Lectures - Mr. NORAMLY BIN MUSLIM : The I A E A Technical Co - operation Progaramme . (Deputy Director General, I A E A , Vienna) . - Prof. L.E.LaCHANCE: Nuclear Techniques in Food, Agriculture and Biotechnology. (FAO/IAEA, Vienna) . 12:00 - 2:00 Registration - Babylon Hotel . 2:00 - 3:30 Scientific Sessions 3:45 Visit to The Unknown Soldier and The Martyr Monuments 8:00 pm Official Reception - Gilgamish Hall Wednesday Nov. 22, 1989 9:00 -10:00 am Scientific Sessions 10:00 -10:30 am Coffee Break

 - 10:30 noon Scientific Sessions
 - 2:00 3:30 Scientific Sessions
 - 3:30 4:00 Coffee Break
 - 4:00 5:00 Scientific Sessions
 - 8:00 pm Banquet - Gilgamish Hall

Thursday Nov. 23, 1989

Scientific Sessions - 10:00 am 9:00 Coffee Break - 10:30 am 10:00 Scientific Sessions 10:30am - noon Scientific Sessions - 3:30 pm 2:00 Coffee Break 3:30 - 4:00 pm Sight Seeing Tour of Baghdad 5:00 pm

Friday November 24, 1989

9:30 am

Visit to the Historical City of Babylon

GENERAL SCIENTIFIC PROGRAMME

Tuesday Nov. 21, 1989		Oral Presentations			
Quiet Saloon	Excutive Meeting Room	Conference Room	Sabar Hall	Gilgamish Hall	
2:00 - 3:30 PM Food Preservation	2:00 - 3:30 PM Radiation Biology	2:00 - 3:30 PM Entamology	2:00 - 3:30 PM Radiopharmaceuticals	2:00 - 3:30 PM Plant Breeding	
ednesday Nov. 22, 1985	9				
9:00 - 10:00 AM Radionuclide Transfer and Modeling	9:00 - 10:00 AM Microbiology and N2 Fixation	9:00 - 10:00 Am Entomology	9:00 - 10:00 AM Radioimmunoassay	9:00 - 10:00 AM Plant Breeding	
Break	Break	Break	Break	Break	
10:30 - Noon Radionuclide Transfer and Modeling	10:30 - Noon Microbiology and N2 Fixation	10:30 - Noon Entamology	10:30 - Noon Radioimmunoassay	10:30 - Noon Plant Breeding	
2:00 - 3:30 PM Dosimetry	2:00 - 3:30 PM Soil Science	2:00 - 3:30 PM Plant Pathology	2:00 - 3:30 PM Rodiopharmaceuticals		
Break	Break	Break	Break		
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4:00 - 5:00 PM Dosimetry	4:00 - 5:00 PM Molecular Biology	4:00 - 5:00 PM	4:00 - 5:00 PM		

Thursday Nov. 23, 1989

Ouiet Saloon	Excutive Meeting	Conference Room	Sabar Hall	Gilgamish Hall
9:00 - 10:00 AM	9:00 - 10:00 AM	9:00 - 10:00 AM	9:00 - 10:00 AM	9:00 - 10:00 AM
Plant Physiology	Soil Science	Radiation Protection	Molecular Biology	Radiopharmaceuticals
Break	Break 10:30 - Noon Ecology and Nuclear Installation	Break	Break	Break
10:30 - Noon		10:30 - Noon	10:30 - Noon	10:30 - Noon
Plant Physiology		Radiation Protection	Molecular Biology	Radiopharmaceuticals
2:00 - 3:30 PM Food Preservation	2:00 - 3:30 PM Ecology and Nuclear Installation	2:00 - 3:30 PM Plant Pathology	2:00 - 3:30 PM Plant Breeding	2:00 - 3:30 PM Radioimmunoassay

Poster Presentations will be from Tuesday Nov. 21 to Thursday Nov. 23 in The Lobby In Front of Gilgamish Hall

PLANT BREEDING (Oral Presentation)

Tuesday Nov. 21,1989 - Gilgamish Hall Session 1 (2:00 - 3:30 PM)

Chairman : Prof. W. GOTTSCHALK Co-chairman : Dr.K.K. AL-JANABI

- 2:00 1. B.DONINI, P.MANNINO: Mutagenesis Applied for the Improvement of Vegetatively Propagated Plants. (Italy).
- 3:00 2. K.BOROJEVIC, S.SESEK: Microevolutionary Processes in a Population of Wheat, 25 Years After Irradiation . (Yugoslavia) .
- 3:15 3. M.S.EL-KEREDY : Induced Useful Mutations in Some Field Crops in Egypt. (Egypt) .

Wednesday Nov. 22, 1989 - Gilgamish Hall Session 2 (9:00 am - Noon)

Chairman : Prof. BOROJEVIC Co-chairman : Dr. H.G.ALI

- 9:00 4. W.GOTTSCHALK: Suppression of Gene Action Through Environmental Factors. (W.Germany).
- 9:30 5. M.B.YILDIRIM, M.I.CAGIRGAN : Selection Studies for Grain yield in Certain Mutant Populations of Barley . (Turkey)

- 9:45 6. A.H.ADARY: Development of Eceriferum Mutant in Clipper Barley . (Iraq) .
- 10:00 B R E A K
- 10:30 7. K.BOROJEVIC : Combining Conventional Wheat Breeding Procedures with New Genetics Methods . (Yugoslavia) .
- 11:00 8. H.YAMAGUCHI: Production of Breeding Materials in Rice by Induced Mutation in Japan . (Japan) .
- 11:15 9. M.I. CAGIRGAN, M.B. YILDIRIM: Macro-Mutational Variability in Quantitative Traits of Barley. (Turkey).
- 11:30 10. E.I.METWALLY, G.El-FADLY, A.Y.MAZROUH: Inheritance of Yield and Fruit Quality of Some Tomato Crosses Grown Under Heat Stress Conditions in Egypt. (Egypt).
- 4:45 11. N.SHAABAN, L.STAMOVA: Using of Laser and Gamma Radiation in Selection Program of Tomato, Lycopersicon esculentum for Salt Tolerance. (Bulgaria).
- Thursday Nov. 23,1989 Sabar Hall Session 3 (2:00 - 3:30 PM)
- Chairman : Prof. B. DONINI Co-chairman : Dr. A.M. MOHAMMED
- 2:00 12. M.S.OMAR, F.J.NOVAK, H.BRUNNER: Effects, Uptake and Distribution of C14 EMS in Banana Shoot Tips Cultured In Vitro .(Iraq).

- 2:15 13. M.I.SELBI,K.K.A1-JANABI,M.A.A1-SUDANI,W.K.A1-QUADHY: Cytogenetic Studies on Cultivated x Wild Wheat Hybrids . (Irag) .
- 2:30 14. G.Y.P.Klu, T.V.O LAMPTEY, E.DINKU, F.J.NOVAK: Studies on Meristem Culture of White and Yellow- Pigmented Cultivars of Cassava (Manihot esculenta Crantz). (Ghana).
- 2:45 15. J.S.SANDHU, P.S.BHATNAGAR : Induced Polygenic Variation Soybean. (India) .
- 3:00 16. A.M.MATER, A.O.HASAN : Effects of Gamma Ray on Embryogenic Callus Cultures of Date Palm . (Irag) .
- 3:15 17. A.M.MOHMMED, H.S.SALIH: Effect of Some Growth Regulators on Sunflower Callus Fresh Weight and on Protein, RNA, DNA and Carbohydrates Content. (Iraq).

- 1. A.H.A.HAMMAD, M.T.M.SHARABASH, M.A.AHMED, M.M.HUSSEIN : Utilization of Gamma Rays for Soybean Stimulation.(Egypt) .
- 2. A.H.A.HAMMAD: Relation Between Rhizobium and Gamma Rays Treatments on Growth of Soybean plant and its Chemical Constituents. (Egypt).
- 3. M.O.AI-AUBAIDI , I.F.IBRAHIM, K.K.AI-JANABI, E.M.AI-MAAROOF, A.H. MAHMOOD : Use of Fast Neutrons to Induce variability in Wheat Cultivar Maxipak.(Iraq).

- 4. A.A.M.Al-JOBOURI, W.M.Al-RAWI, D.P.YOUSIF: Induction of Male Sterility by Gibberellic Acid in Sunflower, Helianthus annuus L. (Iraq).
- 5. D.P.YOUSIF, A.A.M.A1-JOBOURI, W.M.A1-RAWI : Response of Sunflower Genotypes to Callus Formation and Salinity Tolerance.(Iraq) .
- 6. K.K.AI- JANABI, L.S.MOHAMMED. N.N.JIAWOOK, I.F.IBRAHIM : Breeding Local Wheat Cultivar "Saberbeg" Using Gamma Ray.(Iraq) .
- 7. K.M.WOHAYEB, K.K.A1-JANABI, H.S.KHUDHAIR : Breeding of Sesame (Sesamum indicum L.) .(Iraq) .
- 8. L.S.MOHAMMED, K.K.AI-JANABI, N.N.JIAWOOK, I.F. IBRAHIM: Breeding of (Triticum aestivum L.) by Hybridization . (Iraq) .
- 9. A.H.Al- MAINI, K.K.Al-JANABI, M.I.SELBI, W.M.ABDULKARIM: Wide Hybridization of Bread Wheat (Triticum aestivum L.) Using Irradiated and Non- Irradiated Pollen of Triticale. (Iraq).
- 10. M.A.KGAZAL: Effects of Pollen Irradiation on Fruit Development, Yield and Seeds Formation in Date Palm (Phoenix dactylifera L.). (Iraq.).
- 11. M.I.SELBIA, H.A.KHETHYER, A.M.MAHDI : Breeding of Barley Via Irradiation and Chemical Mutagens . (Iraq) .
- 12. N.N.JIAWOOK,K.K.AL-JANABI, M.A.AI-AUBEEDI: Induced Mutations in Local Wheat (Triticum aestivum L.) Cv. Ajeeba Using Chemical Mutagen (NaN3).

 (Iraq).

- 13. W.K.AI-QAUDHY, D.S.AI-ANI and S.A.AI-HEDEETHY: Production of Backcross Reciprocal Monosomic Lines Used for Chromosomal Locations of Genes in Local Cv. Ajeeba and Saberbeg. (Iraa).
- 14. M.A.HAMZA, A.H.Al-YOUNIS, and F.Al-KALIZY: Study of Eight Mutants Induced From Two Barley Cultivars (Hordeum vulgare L.).(Iraq).
- 15. H.A.SAIF, M.S.OMER, F.A.SALIH: Effects of Gamma Ray on Growth, Carbohydrates, Proteins and Nucleic Acid Contents of Wheat Callus Cultures. (Iraq).
- 16. M.S.A1-RAWI, M.K.HAMEED, M.S.OMAR : Protoplast Isolation, Culture and Fusion in Phoenix dactylifera L. (Iraq) .
- 17. M.K. HAMEED, M.S. Al-RAWI, M.S. OMAR : Propagation of the Date Palm In Vitro. (Iraq).
- 18. F,A.SALIH, M.S.OMAR, H.A.SAIF: Effects of Sodium Chloride on Carbohydrate, Protein and Nucleic Acid Contents in Four Wheat (Triticum) Cultivars Cultured In Vitro . (Iraq) .
- 19. M.S.OMAR, F.J.NOVAK: Somatic Embryogenesis of Date Palm- A Source for Mutagenesis In Vitro . (Iraq) .
- 20. H.C.ALI, M.A.HUSSAIN: Influence of Gamma Radiation on the Morohological Traits, Yield and Yield Components of Several Genotypes of Maize .(Iraq).

PLANT PATHOLOGY (Oral Presentation)

Wednesday Nov. 22,1989 - Conference Room Session 1 (2:00 - 5:00 PM)

Chairman : Dr. K.M. HAMEED Co-chairman : Dr. F.A. FATTAH

- 2:00 1. A.POPOV , Y.POPOVA : Mutation Inducing in Maize Via Gamma Rays and Fast Neutrons . (Bulgaria) .
- 2:30 2. I.F.IBRAHIM, A.A.Al-JANABI, E.M.Al-MAAROOF: Induction of Powdery Mildew Resistance in Barley . (Iraq) .
- 2:45 3. H.A.ABU-BLÄN: Physiological Basis Underlying the Resistance of Determinate Flowering Fababean Lines to Botrytis fabae Infection . (Jordan).
- 3:00 4. N.Y.AL-TALEB, S.M. NEMIR, A.K.AL-TAIE: Study on Wheat Flag Smut Incited by Urocystis agropyri . (Iraq) .
- 3:15 5. R.H.SINGH, M.PAL : Pigeonpea Genotypes Resistant to Phytophthora Blight. (India) .
- 3:30 B R E A K
- 4:00 6. I.F.IBRAHIM, K.K.AL-JANABI, E.M.MAAROOF, M.O.AL-AUBAIDI, A.H.MAHMOOD, A.A.AL- JANABI, H.O.HAIDER: Development of New Iraqi Wheat Variants Through Induce Mutation. (Iraq).

- 4:15 7. A.K.AL-TAIE, N.Y.AL-TALEB, S.M.NEMIR : Priliminary Study on Barley Twisted Disease Incited by Dilophospora alopecuri . (Iraq) .
- 4:30 8. K.M.TAMIMI : Effect of Phyllody and Shoot Apex Fasciation on the Yield of Certain Mutants of Sesame . (Iraq) .
- 4:45 9. P.P.SINGH, T.S.THIND, S.S.SOKHI , R.K.GREWAL : Epidemiological Studies on the Spread of Downy Mildew on Muskmelon During Dry Weather . (India) .

Thursday Nov. 23.1989 - Conference Room Session 2 (2:00 - 3:30 PM)

Chairman : Prof. A.POPOV Co-chairman : Dr.I.F.IBRAHIM

- 2:00 10. M.A.AL-HAMADANY, M.M.SALEH, I.A.AL-DULAIMI: Inheretance of Mildew Resistance in Barley . (Iraq) .
- 2:15 11. J.S.BRAR, B.S.THIND: A new Method for Proving Seed Transmission of Xantnomonas campestris Pv. oryzae . (India) .
- 2:30 12. H.A.HADWAN, T.P.BHOWMIK: Some Biochemical Changes in Resistant and Susceptible Groundnut Cultivars Infected by Aspergillus niger.
- 2:45 13. A.L.ABDEL SALAM: The Role of White Fly Bemesia tabaci Genn. in Transmitting Virus Diseases to Tomato in Egypt. (Egypt).

- 3:00 14. S.S.SOKHI, G.D.MUNSHI, C.MOHAN, P.P.SINGH: Epidemiological Studies on Flag Smut of Wheat in India . (India) .
- 3:15 15. D.LALITHAKUMARI, R.RAVATHI: Morphological Characterization of Laboratory Mutant of Rhizoctonia solani Kuhn (Paddy Strain) Resistant to Bavistin . (India) .

- 1. D.LALITHAKUMARI, V.R.PROBAVATHY: In Vitro Toxicity of Biloxzole (Baycor) on Phytopathogenic Fungi. (India).
- 2. M.A. AL-HAMADANY, M.M.SALIH, I.A.AL-DULAIMI: Induced Resistant Mutations in Broad Bean Against Fusarium Wilt by Gamma Rays and EMS. (Iraq).
- 3. H.A. HADWAN, P.BHOWMK: Anatomical study on some Collar Rot Resistant and Susceptible Groundnut (Arachis hypogaea L.) Cultivars. (Iraq) .
- 4. I.D. AL-MAFRAGI, F.M.SHARIF, S.A.HABIB, W.SALMAN: The Role of the Fungi Aspergillus terreus Thom and A.fumigatus Fres.with Certain Herbicides in the Integrated Control of Johnsongrass, Sorghum halepense (L.) Pers. .(Iraq).
- 5. P.G.Savov : Radiation Mutagenesis and Gene Pool of the Wheat . (Bulgaria) .
- 6. F.A.FATTAH ,H.M.SALEH : Studies on Wheat Seed Gall Nematode . (Iraq) .
- 7. F.A.FATTAH, H.M.SALEH, H.M.ABOUD : Role of Plant Parasitic Nematodes in Date Palm Decline . (Iraq) .

- 8. M.A.AL-HAMDANY , M.M.SALIH, I.A.AL-DULAIMI : Induced Resistance in Alfalfa Against Rust disease by Gamma Rays . (Iraq) .
- 9. F.A.FATTAH, F.KADEM, H.M.SALEH, H.M.ABOUD: Biological Control of the Root-Knot Nematodes . (Iraq) .
- 10. I.ABBAS, M.N.MOUHI : Reaction of 17 Barley Cultivars and Mutants to Scald Disease . (Irag) .
- 11. A.A.AL-JANABI, I.F.IBRAHIM, E.M.AL-MAAROOF: A Study on Resistance of Different Barley Variants to Puccinia Hordei in M³ Generation. (Iraq).
- 12. E.M.AL-MAAROOF, I.F.IBRAHIM, A.A. JANABI, M.O.AL-AUBAIDI : Evaluation of some Rariev Mutants to Scald Disease . (Iraq) .

PLANT PHYSIOLOGY (Oral Presentation)

Tursday Nov. 23,1989 - Quiet Saloon Session 1 (9:00 AM - Noon)

Chairman: prof. M.A. AL-YOUNIS Co.chairman: Dr. I.S. AL-SADDAWI

- 9:00 1. A.K. ABD EL-HALEM, M.T.M. SHARABASEH, A.H.A. HAMMAD, I.O.A. ORABI: Effect of Gamma Irradiation and Salinity on Growth of Wheat. (Egypt).
- 9:15 2. I.S. AL- SADDAWI, W.M.AL-DOORI : Evaluation of Salt Tolerance of Three Mutants of Wheat Cv. Ajeeba . (Iraq) .
- 9:30 3. A.H.A. HAMMAD, I.O. ORABI, A.K. ABD EL-HALEM, M.M. HUSSEIN: Effect of Gamma Irradiation and Salinity on Growth, Yield and it's Components and Chemical Composition of Barley. (Egypt).
- 9:45 4. S.M. AL-MASHHADANI, I.S. AL-SAADAWI, W.M. AL-DOORI: Evaluation of Draught Avoidance and Tolerance of Three Barley Genotypes . (Iraq).
- 10:00 BREAK
- 10:30 5. D. LALITHAKUMARI, K. RATHNAVATHI: Biloxazole (Baycor) and Calixin as Growth Regulants of Tomato Plant (Lycopersicon esculentum) (India).

- 10:45 6. F.M.ABDEL GALIL, O.K.HASHIM, M.A.EL-JESRI : Biogenesis of C27 Steroidal Alkaloids in Solanum Plants . (Egypt) .
- 11:00 7. S.SAVITHIRY, D.LALITHAKUMARI : Effect of Methyl Isocyanate an Phase I of Germination of Cotton and Paddy Seeds . (India) .
- 11:15 8. M.F.BARAKAT, A.N.FARAG, M.T. RAGAB, M.M.EL-FOULY, F.K.EL-BAZ:
 Radiophotosynthesis of Some 14C-labelled Amino Acids Using the
 Unicellular Green Algae Scendesmus acutus . (Egypt) .

- 1. F.M.HUMADI, A.H.AISAMARRIE, S.M.AL-HAMADNY: Effect of Nitrogen and Calcium on Growth and Yield of Cabbage (brassica oleracea varcaptata (Iraq).
- 2. F.M.HUMADI, A.H.ALSAMARRIE, S.A.AL-HAMADNY: Effect of Nitrogen and Calcium on Growth on Yield of Cauliflower (Brassrca oleracea, var caprtata (Iraq).
- 3. I.S.ALSADAWI, W.M.ALDOORI : Salt Tolerance of Three Barley Mutants (Iraq) .
- 4. T.K.MERZA, G.A.KHUDHIER, A.N.JIRI: Relationship Between Planting Density and Infloresence Number with Growth and Characteristics of Early Yield in Tomatoes (Iraq).

SOIL

(Oral Presentation)

Wednesday Nov. 22,1989 - Excutive Meeting Room Session 1 (2:00 - 3:30 PM)

Chairman : Dr. R.K. AL-ANI Co-chairman : Dr. J.K. AL-UQAILI

- 2:00 1. A.A.FAHAD, R.M.SHIHAB, A.W.ALI, H.A.TAWFEEK: Mobility and Reactivity of Cationic Radionuclides in Calcareous Soils of Iraq. (Iraq).
- 2:15 2. J.K.AL-UQAILI, A.A.AL-HADETHI, J.S.MAHMOOD: Adsorption and Desorption of Iron in Calcareous Soils. (Iraq).
- 2:30 3. M.M.SALIH, H.K.AL-SALMANI, A.A.SHAKER, S.A.KUBBA: Use of Sulphuric Acid with Irrigation Water to Improve Plant Productivity of Calcareous Soil . (Iraq) .
- 2:45 4. M.MECHERGUI, M.H.SNANE, E.HAMZA: Mulching Effect on Water Consumptive Use by Sorghom. (Tunisia).
- 3:00 5. F.G.AZIZ, B.I.MOHAMMED: Evaluation of Chemical Methods to Assay Potentially Available N to Wheat Crop Grown on Calcareous Soils. (Iraq).
- 3:15 6. A.A.FAHAD, R.M.SHIHAB, H.A.TAWFEEK: Leaching of Sodium and Chloride in Soils Using Tracer Technique. (Iraq).

3:30 7. M.I.KARIM, B.I.MOHAMMED, S.H.BAKER: Phosphate Sorption and its Relation to Soil Properties in Some Iraqi Soils. (Iraq).

Thursday Nov. 23,1989 - Excutive Meeting Room Session 2 (9:00 - 10:00 AM)

Chairman : Prof. A.H. ALZUBAIDI Co-chairman : Dr. A.A. FAHAD

- 9:00 8. M.BOLTER: Microbial Respiration in Antaractic Soils Comparison of Data from Different Methods and Implication for Models. (W.Germany).
- 9:30 9. J.K.UQAIL, J.S.MAHMOOD : Estimation of Plant Available Phosphorus (Iraq).
- 9:45 10. E.AJAJ, M.AHAMED: The Combined Effect of the Heating by Using Solar Energy and Different Levels of Sulphur on Soil on Phosphorus Availability and P Uptake by Pepper Under Plastichouse Conditions. (Iraq).

- 1. S.M.AL-MASHHADANI, K.K.ALJANABI, S.A.SALIM, M.H.IBRAHIM: Study of Physiological Changes as a Measure of Salt Tolerance in Different Wheat Genotypes . (Iraq) .
- 2. A.A.AL-HADETHI, J.K.AL-UQAILI, J.S.MAHMOOD: Effect of Soil Salinity and Soil Moisture Regime on the Efficiency of N Fertilizers Using N-15 Methodology. (Iraq).
- 3. R.M.SHIHAB, A.A.FAHAD, M.M.ALI, H.A.TAWFEEK: Influence of Clay Minerals and Iron Oxide on Movement of Mn 54 in Soil . (Iraq) .

ENTOMOLOGY

(Oral Presentation)

Tuesday Nov. 21,1989 ~ Conference Room Session 1 (2:00 - 3:30 PM)

Chairman : Prof. L.E. LACHANCE Co-chairman : Dr. H.F. ALRUBEAI

- 2:00 1. W.J.KLOFT, P.NEUMANN-OPITZ: Transfer of Radio Cesium (134Cs) from Contaminated Food to Insects of Different Nutritional Types-Intake, Retention and Elimination . (W.Germany) .
- 2:30 2. M.S.EL-ZEMAITY, S.M.ABDEL BAKY, F.M.MARIY: Sterility Effects of Gamma Irradiation Against Ephestia cautella (Walker). (Egypt).
- 2:45 3. M.Y.Y.AHMED, A.DAOUD, E.A.EL-KADY, S.A.BOSHRA: Competitiveness Valus of the Indian Meal Moth Adults Irradiated as Fully Grown Pupae. (Egypt).
- 3:00 4. A.R.BUGHIO : Effect of Gamma Radiation on Mature Pupae of Maize Borer, Chilo partellus . (Pakistan) .
- 3:15 5. A.A.AL-TAWEEL, M.S.H.AHMED, M.A.SHAWKIT, M.J.NASSER: Inherited Sterility Among Ephestia cautella Laboratory Population Exposed to Gamma Radiation. (Iraq).

Wednesday Nov. 22,1989 - Conference Room Session 2 (9:00 AM - Noon)

- Chairman: Prof. A.F. AL-AZAWI Co-chairman: Prof. W.J. KLOFT
- 9:00 6 E.M.HEGAZI, N.R.EL-SINGABY, M.A.SHABAN: Effect of Photoperiod on the Duration of Immature Stage of Spodoptera littoralis (Biosd). (Egypt).
- 9:15 7. A.A.OMAR, A.ABU YOUSIF: Effect of Gamma Radiation and Dursban to Induce Mutations in Drosophila melanogaster. (Egypt).
- 9:30 8. M.A.J.AL-IZZI, N.F.JABBO: Population Dynamics and Field Biology of Dubas Bug, Ommatissue binotatue lybicus in Iraq. (Iraq).
- 9:45 9. F.AL-ZUBAIDI, A.HASOON, N.HILAFFY: Evaluation of the Potential Use of Some Industrial Wastes as Insecticides . (Iraq).
- 10:00 B R E A K
- 10:30 10. O.O.DIPEOLU : Prospects for the Control of Ticks of Livestock in Africa . (Kenya) .
- 11:00 11. E.M.T.AL-HAFIDH : The Integration of Bacillus thuringiensis and Some Insecticides on Batrachedra amydraula . (Iraq) .
- 11:15 12. M.AL-BADRY: Metabolism of Malathion in Ephestia cautella . (Iraq).
- 11:30 13. E.M.HEGAZI, M.A.SHABAAN, N.R.EL-SINGABI : Development of

Microplitis rufiventris Kok. Within Superparasitizied Spodoptera litoralis Boisd Larvae . (Egypt) .

11:45 14. Z.S.AL-HAKKAK, S.H.DAKHIL: Effects of He-Ne Visible Laser Radiation on the Emberyos of Ephestia cautella (Walker). (Iraq).

- 1. B.M.AL-CHALABI, N.A.OUDA: Inheritance of Dark Head and Siphon Culex quinquefasciatus Saq . (Iraq) .
- 2. A.A.OMAR, A.A.YOUSIF: Induced Mutations in Drosophila melanogaster by Gamma Radiation and Nitrosocarbaryl. (Egypt).
- 3. M.KOHN: The Distribution of Aedes aegypit (L.) and Culex quinquefasciatus Say in Dwelling Houses of Various Construction in Phnom Penn ,Kampochea . (Czechoslovakia).
- 4. E.M.T.AL-HAFIDH: Biological and Ecological studies on Ommatissue binotatue lybicus De Bergevin . (Iraq) .
- 5. E.M.T.AL-HAFIDH: The Integration of Nosama whitei and Some Chemical and Biological Insecticides on Tribolium castaneum. (Iraq).
- 6. Z.H.MOHSEN, J.T.KASSIR, B.M.AL-CHALABI, N.S.MEHDI: Mosquito Control by Limonene. (Iraq).

- 7. J.ABU-HAB : In Search for Alternates to Chlordaen for the Control of Termites . (Iraq) .
- 8. H.F.ALRUBEAI : Radiosensitivity of Ephestia calidella Male and Female Pupae. (Iraq).
- 9. M.A.J.AL-IZZI, S.K.AL-MALIKY, N.F.JABBO: Feeding and Oviposition of Dubas Bug Under Laboratory Conditions.(Iraq).
- 10. A.A.AL-TAWEEL, M.S.H.AHMED, M.A.SHAWKIT, M.J.NASSER: Mutants Induction in Ephestia cautella and its Importance for Genetic Control (Iraq).
- 11. S.K.AL-MALIKY, M.A.J. AL-IZZI : Apanteles angaleti (Hymenoptera : Bracordea) Effect on Adults of Cocoons Stored at 150°C . (Iraq) .
- 12. S.K.AL-MALIKY, M.A.J.AL-IZZi : Field Cage Evaluation of Laboratory Reared Parasite Apanteles argaleti (Hymenoptera: Braconidea) . (Iraq).
- 13. H.F.ALRUBEAI, Z.A.A.AL-GHRBAWIE, T.R.AHMAD: Induction of Sexual Sterility in Ephestia calidella Males by Sublethal Heat Treatment . (Iraq) .
- 14. A.A.HAMEED, M.S.H. AHMED, A.A.AL_TAWEEL: The Phenomenon of Cytoplasm Incompatibility in Ephestia cautella population in Iraq and Its Possible Utilization in Genetic Control.(Iraq).
- 15. S.B.LAMOOZA, S.S.KADHOM: Electrophoretic Analysis of Proteins in Ephestia cautella ([raq]).
- 16. M.A.SHAWKIT : Effect of Gamma Radiation on the Mating Ability of Ephestia cautella (Lepidoptera : Pyralidae) . (Iraq) .

- 17. T.R.AHMAD, M.A.ALI : Dispersal of Carob Moth Ephestia calidella (Gunee) (Lepidoptera : Fyralidae) in the Date Plam Orchards. (Irag) .
- 18. R.S.SALEH: Effect of Parasitoid Microplitis rufiventris Kok on the Haemolymph Proteins of Spodoptera littoralis (Boisd). (Egypt).
- 19. T.R.AHMAD, M.ALI: Influence of Pheromone Concentration and Plant Cover on Movement of Peach Twig Borer in Central Iraq . (Iraq) .
- 20. M.A.J.AL-IZZI, S.K.AL-MALIKY, N.F.JABBO: Effect of Gamma Radiation and Temperature Treatments on Ephestia cautella Larvae . (Iraq) .
- 21. M.S.AL-BADRY , A.I.AL-SAMARRAEI, M.AL-BASSOMY, K.H.AL-MAJEED : Persistence of Methidation and Chlorpyifos on Apple in Central Iraq . (Iraq) .

MICROBIOLOGY AND N2 FIXATION (Oral Presentation)

Wednesday Nov. 22,1989 - Excutive Meeting Room Session 1 (9:00 AM - Noon)

Chairman : Prof. K.S. AL-DULAIMI Co-chairman : Dr. J.F. AL-MAADIDI

- 9:00 1. F.Y.AL-ANI, A.K.AL-SULTANI: Characterization of Rhizobium meliloti Bacteriophage Isolated From Iraqi Soil . (Iraq) .
- 9:30 2. J.F.AL-MAADHIDI, A.K.ABBAS: Effects of Soils and Salinity on Nitrogen Fixation of Azospirillum spp. Incorporated to Wheat Plant. (Iraq).
- 9:45
 3. D.LALITHAKUMARI, B.RAJKUMAR: Efficacy of Nitrogen Fixation of Photosynthetic Bacteria Utilizing Bavistin and Diuron as the Carbon and Nitrogen Source. (India).
- 10:00 B R E A K
- 10:30 4. A.N.YOUSEF, N.A.ALI, B.H.MUNAM: Interaction Effects of Phosphorus, Rhizobia and Mycorrhiza on Growth, Nodulation, N2 Fixation and Nutrient Uptake by Soybean Grown in Calcareous Soil. (Iraq).
- 10:45 5. A.H.MAHMOOD : Possibility of Cowpea Nodulation Bacteria to Infect Soybean . (Iraq) .

- 11:00 6. V.R.BALASUNDARAM , K.ANNAPURNA : Effect of Some Plant Growth Regulators on Nodulation and Yield of Soybean . (India).
- 11:15 7. M.J.S.EWAD, H.Y.KADHIM, H.M.AMMASH: Uptake of [H3]Dihydrostreptomycin by a Wild Type Streptomyces griseorubens and
 It's Streptomycin Resistant Mutants. (Iraq).
- 11:30 8. S.J.TAJ-ALDEN, K.I.TAHIR: The Cellulolytic System of Aspergillus niveus. (Iraq).
- 11:45 9. N.L.RANI, D.LALITHAKUMARI: Degradation of Organophosphorus Pesticides by Pseudomonas putida. (India).

- 1. S.J.TAJ-ALDEEN, A.H.LAFTA: Saccharification of Lignocellulosis by Trichoderma reese Rut C30 . (Iraq) .
- 2. S.KANDALA, A.ALSHIBIB : Pigment Spectroscopic Analysis of Pseudomonas aeruginosa . (Iraq) .
- 3. A.Y.AL-RUBEAI, A.K.HASSAN, S.Z.JAWDAT, H.S.ALI: In Vitro Multiplication of Leishmania donovani in Peritoneal Macrophages Collected from Irradiated Mice. (Iraq).
- 4. A.M.ALSAQUR, L.G. AL-SEAIDI, H.F.KAMIL, M.M.ATTIC : Hydrogenase Activity in Some Indigenous Rhizobium meliloti Population in Iraqi Soil.(Iraq).

5. M.A.AMIN, A.M.S.HOSNY, A.M.HASHEM: Inulase Production by Filamentous Fungiand Thermo-Tolerant Bacilli . (Eygpt) .

RADIATION BIOLOGY (Oral Presentation)

Tuesday, Nov. 21,1989 - Excutive Meeting Room Session 1 (2:00 - 3:30 PM)

Chairman : Prof. I.M.PARKHOMENKO Co-chairman : Dr. A.M. RASHID

- 2:00 1. I.M. PARKHOMENKO: Molecular Cellular Mechanisms of Low-Doses Biological Action the Ways of the Low-Doses Early Effects Detection and the Possibility of its Modification by Radioprotectors. (USSR).
- 2:15 2. H. HUSSEIN, M.A. EL-ASHRY, W.M. ABDEL BAKY, I.M. EL- GAMAL : Whole Brain Norepinephrine and Serotonine as Affected by Whole Body Gamma Irradiation . (Egypt) .
- 2:30 3. A.M. RASHID ,H. AUDA, A.H. KHALEEL : Effect of Radiation on Plasma Protein in Mice . (Iraq) .
- 2:45 4. H.S. EL-KASHEF, A.M. MAHDY, H.M. ROUSHDY: Recovery from Radiation Induced Changes in Brain Electrical Activity of Irradiated Male Rats Due to the Application of Testosterone Vitamine Mixture as Radioprotector. (Egypt).
- 3:00 5. E.B. KUPRIYANOVA, V.I. SUSLIKOV: Age Changings in Radiosensitivity of Isopod, Protracheoniscus orientalis .(USSR).

3:15 6. H.S. EL-KASHEF, A.M.MAHDY, H.M. ROUSHDY: Repairing of Radiation Induced Disorders in the Response of Central Nervous System to Photostimulation in Male Rats. (Egypt).

- 1. T. ALKARMI, A. MUSTAFA, R. ALSHARIF, H. DAHLAN, K. BEHBEHANI: The Effect of gamma Radiation on the Infectivity Fecundity and Viability of Trichinella spiralis and Trichinella Pesudospiralis. (Kuwait).
- 2. H. HASSEIN: Correlation Between Plasma and Different Brain Regions Neurohormones as Affected by whole - Body Ionizing Irradiation in Albino Rat. (Egypt).
- 3. N.K. AL-DAHAM, E.W. SHELL: The Effect of Cobalt Gamma Ray Irradiation on Survival Growth and Reproduction of the Cichlid Fish, Oreochrodis aureus.

 (Iraq).
- 4. A.H. KHALEEL, A.M. RASHID, H. AUDA: Effect of Radiation on Amino Acid Composition of Purified Alkaline Phosphatase from Liver of Mice.(Iraq).

MOLECULAR BIOLOGY (Oral Presentation)

Wednesday Nov. 22,1989 - Excutive Meeting Room Session 1 (4:00 - 5:00 PM)

- Chairman: Prof.I.C. GUNSALUS Co-chairman: Prof. S. AL- MUDHAFER
- 4:00 1. B.AL-ALLAK, S.M.NADA, N.A.ALI : Isolation of the HPRT Gene from Chinese Hamster V79 Cells . (Iraq).
- 4:15 2. H.M.ALI, T.A.G. AZIZE, H.M. ABDUL-KARIM: Isolation and Characterization of Hepatitis B Surface Antigene from Donors Blood. (Iraq).
- 4:30 3. E.K.SHUBBER, S.M.NADA, A.H.KARAM: Amplification of Dihydrofolat Reductase (DHFR) Gene in Mammalian Cells. (Iraq).
- 4:45 4. M.B.RASSAM , L.J.AL-DIWANY, W.ISAA, A.SMYTH : Characterization of Leishmania Parasites from Iraq by DNA Hybridization Using Species Specific Recombinant DNA Probes (Iraq) .

Thursday Nov. 23,1989 - Sabar Hall Session 2 (9:00 AM - Noon)

- Chairman: Prof. H. AUDA Co-chairman: Dr. Z.A. AL-DOORI
- 9:00 5. I.C.GUNSALUS: Prospects of Biotechnology in the Developing Countries.(ICGEB, Italy).

- 10:00 BREAK
- 10:30 6. Z.AL-DOORI, A.CLOR, N.ALI: Proporties of PIQ5 Plasmid Which Originated in Klebsiella pneumoniae ZD 532.(Iraq).
- 10:45 7. P. ANNAMALAI , D.LALITHAKUMARI, : Isolation and Regeneration of Protoplast from Derchslera oryzae.(India) .
- 11:36 8. F.R.ALI, T.M.ISMAEL: Protoplast Formation, Fusion and Regeneration of Rhizobium meliloti .(Iraq).
- 11:15 9. D.LALITHAKUMARI, P.ANNAMALAI : Plasmid Mediated Ediferphos Resistance in Drechslera oryzae.(India) .
- 11:30 10. N.A.ALI , M.A.IBRAHIM, Y.Y.SALIH, J.DULAIL : Extracellular Amylase Synthesis by Local Streptomyces Sp. (Iraq) .
- 11:45 11. A.AI-ZAAG : Construction of Transposable Cellobiose Encoding Genes. (Iraq) .

- 1. J.M.JANDAL : Iodination of Buffalo Milk Fat Globule Memberane Proteins Isolated from Ultra High Temperature Treated Milk.(Iraq) .
- 2. S.M. NADA, H.ALANI : Karyotype of Awassi Sheep and Jenubi Cattle in Iraq. (Iraq) .

- 3. A.SAHIB, M.B.RASSAM, R.K.MUSLIH: Separation and Characterization of L. donovani Antigens Provoking Antibody Formation in Visceral Leishmaniasis . (Iraq).
- 4. E.K.SHUBBER, S.M. NADA, A.W.AL-SHAIKLY: Chromosomal Analysis of Lymphocyte Isolated from Leukemic Patients.(Iraq).

FOOD PRESERVATION

(Oral Presentation)

Tuesday Nov. 21,1989 - Quiet Saloon Session 1 (2:00 - 3:30 PM)

Chairman : Dr. S.A. AL- SHAKIR Co-chairman : Dr. H. JADDOU

- 2:00 1. W. STACHOWICZ, J.MICHALIK, G.BURLIN'SKA: IDENTIFICATION OF Food Irradion With Gamma Rays And Electron Beam . (Poland).
- 2:30 2. H. JADDOU, F.A. SAEID, E.z. NAJI, H.I KHALAF: The Use of Some physical and Chemical Methods for the Identification of Irradiation Food (Iraq).
- 2:45 3. I.I. EL-OKSH, M.T.M. SHARABASH, I.O.A. ORABI : Studies On the Storage of Irradiated Potatoes- I. Effect On Physical Properties . (Egypt) .
- 3:00 4. A. BOUSSAHA: Commercial Prospects of Food Irradiation In(Algeria).
- 3:15 5. M.T.M. SHARABASH, I.I. EL-OKSH, I.O.A. ORABI ,M.A.ABD -ALLA:
 Studies on the Storage of Irradiated Potatoes II . Effect On
 Chemical Constituents . (Egypt) .

- Thursday Nov. 23,1989 Quiet Saloon Session 2 (2:00 - 3:30 PM)
- Chairman : Dr. M.S.H. AHMED Co-chairman : Dr. I.O.A.ORABI
- 2:00 6. S. IGNATOWICZ: Efficacy of Gamma Radiation As A Quarantine Treatment Against Stored Product Pests. (Poland).
- 2:15 7. M.S.H. AHMED , A.A. AL-TAWEEL, A.A. HAMEED : Disinfestation of Packet Dates by Gamma Radiation Using a Suitable Food Irradiation Facility . (Iraq) .
- 2:30 8. H.A. HIGHLAND: Post Irradiation Protection from Infestation with Insect Resistant Packaging . (USA) .
- 2:45 9. A.I. AL-SENBUL, A.M. AL-ANI, A.A. AL-SAMARRIE, E.G.DAWOOD : Effect of Storage Duration on the Storability of Six Potato Cultivars Solanum tuberosum L. (Iraq).
- 3:00 10. M.A. ABD-ALLA, I.I. EL- OKSH, M.T.M. SHARABASH, I.O.A. ORABI : Studies on the Storage of Irradiated Potatoes III . Quality of Culinary. (Egypt) .
- 3:15 11. I.O.A. ORABI, A.A. HAMMOD : Mycological and Chemical Studies On Irradiated Potatoes . (Egypt) .

- 1. A.A. MAHMOUD : Effect of Irradiation and Storage on the Quality of Potatoe Chips . (Egypt) .
 - 2. A.A. ALSAMARRIE, A.I. AL-ATTAR: Effect of Maleic Hydrazide on the Qualitative Characteristic of Onion (Allium cepa L.) Stored in Ventilated and Cold Storages. (Iraq).
 - 3. M.T.M. SHARABASH : Studies on Votatile Compounds in Mangoes and tomatoes as Affected By Gamma Ray (Egypt) .
 - 4. S. IGNATOWICZ, M. WROBLICKA SYSIAK: Responses of the Bulb Mites to Gamma Radiation from 60Co . (Poland) .
 - 5. A.I. AL-SENBUL, A.A. AL-SAMARRIE, A.M. AL-ANI, E.G. DAWOOD: The Storability of 25 Potato Cultivars Solanum tuberosum Under Cold Storage and Reconditioning. (Iraq).
 - 6. M.A. HAKIM, B.J. PARSONS : Effect of Free Radicals Produced by Gamma Radiation on Lipoxygenase . (Iraq) .
 - 7. M.T. AL-KAISEY, K.C.B. WILKIE : Polysaccharides in Lupin Seeds . (Iraq) .

ECOLOGY & NUCLEAR INSTALLATION (Oral Presentation)

Thursday Nov. 23,1989 - Excutive Meeting Room Session 1 (10:30 AM - Noon)

Chairman : Dr. M. SALLAMA Co-chairman : Dr. A. SABRI

- 10:30 1. R.H.GRAY: Monitoring the Impact of Nuclear Facilities on the Environment . (USA) .
- 11:30 2. I.I.SHUKTOMOVA, I.G.KOCHAN, A.I.TASKAEV: Mobile Forms of Plutonium in Some Chernobyl Zone Soils . (USSR) .

Thursday Nov. 23,1989 - Excutive Meeting Room Session 2 (2:00 - 3:30 PM)

Chairman : Prof. R.H. GRAY Co-chairman : Dr. A.F. ABBAS

- 2:00 3. A.SABRI, K.A.RASHEED, S.SHAWKAT: Aspects of General Ecological Studies for NPP Site Selection in Iraq. (Iraq).
- 2:30 4. A.HELMY, M.SALLAMA, F.H.HAMMAD: Emergency Planning and Preparedeness for Accidents Involving Radioactive Materials Used in Medicine and Teaching. (Egypt).

- 2:45 5. M.SALLAMA, A.HELMY. F.H.HAMMAD: Emergency Planning and Preparedenss for Nuclear Power Plants. (Egypt).
- 3:00 6. V.G.ZAINULLIN, A.O.RAKIN, V.A.SHERCHEIVKO: The Frequency of Recessive Lethal Mutations Following Gamma Irradiation of Natural Population of Drosophila melenogaster (USSR)

- 1. P.K.SHIBEEB, H.A.M.DAUOD, T.Y.ALDOURI : Some Biological Aspects of Two Economically Important Fish of Genus Barbus from Al-Habbania Lake. (Iraq).
- 2 R.K.SHIBEEB, T.Y.ALDOURI, H.A.M. DAUOD: Some Biological Aspects of Barbus luteus (Heckel) drom Al-Habbania Lake. (Iraq).
- 3. A.A.Al-TAWEEL, M.A.SHAWKIT: The Induction of Cell Death in the Testis of Heteracris littovalis by Gamma-Rays. (Iraq).

RADIATION PROTECTION (Oral Presentation)

Thursday Nov. 23.1989 - Conference Room Session 1 (9:00 AM - Noon)

Chairman: Prof. M.F. BARAKAT Co-chairman: Dr. I.K. AL-HADAD

- 9:00 1. I.S.RIZZO, S.TECHINT: Optimization Criteria and Methodologies of a Supercompacting Facility for Nuclear and Hazardous Wastes .(Italy).
- 9:30 2. M.E.SHERFAD, T.S.AKKI, S.A.EL-DABBAR, R.M.MEGAHID: Study on the Effect of Boron Loaded Steel on the Distribution of Thermal and Epithermal Neutrons in Multilayers Shield.(Libya).
- 10:00 B R E A K
- 10:30 3. A.A.MUSTAFA , C.M. VASISHT : Measurement and Health Effects of Indoor Radon Concentration in Kuwait. (Kuwait) .
- 10:45 4. M.IMAM, M.Q.AL-DYNI : Calculation of Dose Rate Above the IRT-Reactor in Case of Losing Half of the Pool's Water . (Iraq).
- 11:00 5. H.AL-WANDAWI, E.I.MAHDI, E.A.HASSAN: Full Protection of Lethally Irradiated Mice by Chemical Radioprotectors. (Iraq).
- 11:15 6. M.F. BARAKAT, M.A.EL-NESHABY: Protection in Irradiated Chemical System: I- Protective Effect of Some Organic Additives in Irradiated Aqueous Solutions of Polyvalent Ions. (Egypt).

- 1. A.OUTHMAN, M.A.KENAWY A.MORSEY: Gas Gain in Neon Hydrogen Fielled Gaseous Proportional Detectors. (Egypt).
- 2. H.AL-WANDAWI, M.M.ABDUL RAHMAN, K.A.AL-SHAICKLEY: Radioprotective Role of Some Carotenoid Compounds.(Iraq).

DOSIMETRY (Oral Presentation)

Wednesday Nov. 22,1989 - Quiet Saloon Session 1 (2:00 - 5:00 PM)

Chairman : Prof. D.E. WATT Co-chairman : Dr. H.M.A. AL-SHAIBANI

- 2:00 1. D.E.WATT: Radiation Dosimetry: Philosophy, Principles, Practice and Future Trends. (UK).
- 3:00 2. M.AL-JARALLAH, E.PIESCH, B.BURGKHARDT: Development of a Single Sphere Albedo System for the Measurment of Neutron Dose Equivalent Rates and the Field Calibration of Personnel Albedo Neutron Dosimeters. (Saudia Arabia).
- 3:15 3. A.N.BALASEM, A.K.ALI : Micronucleus Assay for Biological Dosimetry . (Iraq) .
- 3:30 B R E A K
- 4:00 4. A.N.BALASEM, A.K.ALI : Chromosomal Aberrations as a Biological Dosimetry for Radiation Exposures . (Iraq) .
- 4:15 5. H.A.AL-JOBURI, H.AL-WANDAWI, K.A.ABULRAHMAN: Dose Assesment for Group of Workers Occupationally Contaminated with Iodine 131. (Iraq).

- 4:30 · 6. A.A.MORSY, A.A.HADY: Application of PM 555 Polymeric Nuclear Track Detector . (Egypt) .
- 4.45 7. Y.K.ABDUL AHAD, H.H.ALI, M.S.NAJI, M.M.ABDALLA :Environmental Gamma Radiation Monitoring Using TLD Around Tuwaitha Site . (Iraq) .

- 1. A.M.EID, R.M.EL-OKR : Thermoluminescence of Quartz Doped with Various Activators . (Egypt) .
- 2. D.K.AL-DABAGH, M.S.AL-ARIF, I.K.AL-HADED: THE Use of TLD Technique (Lif-6 and Lif-7) for Measuring and Separating Thermal Neutron Flux and Gamma Ray Flux. (Iraq).
- 3. M.S.AL-ARIF : Tissue Equivalent Thermoluminescent Dosimetry Using CaSO4. (Iraq).
- 4. M.S.AL-ARIF : Low Photon Energy Dose Distribution at Interfaces . (Iraq) .
- 5. N.A.S. SARHAN : Computer Based Record Keeping of Dose Monitoring. (Iraq).
- 6. A.HADJADJ : Use of Pre Irradiated Solutions in Ceric Dosimetry . (Algeria) .

RADIONUCLIDES TRANSFER AND MODELING (Oral Presentation)

Wednesday Nov. 22,1989 - Quite Saloon Session 1 (9:00 AM - Noon)

Chairman : Prof. I.V.T. DUBINCHAK Co-chairman : Dr. B.A.MAROUF

- 9:00 1. V.T.DUBINCHAK: The Interrelationship Between Residence Time and Retardation Functions for Radionuclides in the Environment:
 Determination of These Functions by Means of Isotope Tracer Techniques. (IAEA / Austria).
- 10:00 B R E A K
- 10:30 2. B.A.MAROUF, I.K.AL-HADAD, N.A.TOMA, N.F.TAWFIG, M.A.HASOON:
 Radioactivity Measurements in Some Imported Food Items . (Iraq).
- 10:45 3. P.KULA , D.SMOLIK, K.RACLAVSKY : Recultivation of Fly Ash Deposition and Some Problems of Heavy Metals and Radioactivity . (Gzechoslovakya) .
- 11:00 4. A.N.SHAMSALDIN, T.H. THABIT: Theoretical Determination of the Atomospheric Cofficients y and z. (Iraq).
- 11:15 5. A.M.EID : Health Physics and Radioactivity in Foodstuffs . (Egypt) .
- 11:30 6. S.H.AL-JABOURI, M.ABBAS, K.JABBAR: Radioactivity Measurements in the National Iraqi Foods.(Iraq).

RADIOIMMUNOASSAY (Oral Presentation)

Wednesday Nov. 22,1989 - Sabar Hall Session 1 (9:00 AM - Nonn)

Chairman : Dr. R.S. KAMEL Co-chairman : Dr. Y.M. MEGAHED

- 9:00 1. J.INGRAND, J.GUERIS : Isotopic and Non- Isotopic Immunoassays : Present and Future . (France) .
- 9:30 2. B.TODOROV, M.NICOLOVA: Radioimmunoassay Kits for Diagnosis of Bovine Leucosis Virus. (Bulgaria).
- 10:00 BREAK
- 10:30 3. Y.M.MEGAHED, A.A.M.AL-ASSAL, A.M.AI-SAIED, H.H.YOUSEF, E1.S.ODA-BASHA: Hormonal Radioimmunoassay as a Prognostic Index of Threatened Abortion . (Egypt) .
- 11:00 4. R.S.KAMEL, S.M.AL-SOUAIDY, M.K.ABDUL-MAJID : Radioimmunoassay for Free Thyroxine in Serum . (Iraq) .
- 11:30 5. A.E.ABDELAAL, A.M.A.BORADY, H.A.M.FARGHALY: The Relation Between Ovarian Activity and Hormonal Pattern (Progesterone, T3 and T4) in Serum of Egyptian Water Buffaloes. (Egypt).
- 11:45 6. M.M.FATHI: Studies on the Assay of Lutropin (Luteinising Hormone)
 Using Immunoradiometric Assay Systems . (Iraq) .

Thursday Nov. 23,1989 - Gilgamish Hall Session 2 (2:00 - 3:30 PM)

Chairman : Prof. J. INGRAND Co-chairman : Dr. M.M.FATHI

- 2:00 7. R.S.KAMEL, S.M.AL-SOUAIDY, M.K.ABDUL-MAJID: External Quality Control Scheme for Thyroid Related Hormones Measured by Radioimmunoassay. (Iraq).
- 2:30 8. I.M.EL-BANNA, H.A.AL- ASRAG, M.H.GAMMAL, M.S.GODO: Development of Homologous Iodine-125 Labelled Progesterone Radioimmunoassay System. (Egypt).
- 2:45 9. A.W.R.HAMMED, R.S.KAMEL, M.M.ATYIA, N.T.HATHAL: Development of Human Placental Lactogen Radioimmunoassay Kit. (Iraq).
- 3:00 10. A.J.AHMED: Assessment of Serum Cortisol in Patient with Adrenal Hypofunction and Adrenal Hyperfunction . (Iraq).

- 1. S.A.M.ALANSSARI, M.AL-BARAZANCHI, D.D.SALIEMAN: Detection of Luteal Insufficiency in Iraqi Patients Via Application of Radioimmunoassay Technique. (Iraq).
- 2. A.E.ABDELAAL, M.EL-SHOURBAGG, I.T.ABDELGAWAD, R.BOALIS: Progesterone Adminstration During Pregnancy and Fetal Outcome in the Rat. (Eygpt).

- 3. S.A.HASAN, R.S.KMEL, F.H.ABBAS AND G.A.HAMED: Magnitizable Solid Phase RIA for Human Albumin in Urine . (Iraq) .
- 4. R.S.KAMEL, F.M.KARIM: Magnetizable Solid Phase RIA for Cortisol. (Iraq)
- 5. R.S.KAMEL, F.H.ABBAS, F.J.DHAHIR : Solid Phase RIA for Testosterone (Iraq).
- 6. R.S.KAMEL, F.M.KARIM, M.H.KARBON, A.K.JALHOM: RIA for Serum Triiodothyronine: Evaluation of New Commercial Kit. (Iraq).
- 7. R.S.KAMEL, M.K.ABDUL-MAJEED, F.J.DHAHIR: Magnetizable Solid Phase Fluoroimmunoassay for Thyroxine in Serum (Iraq).
- 8. S.M.AL-SOUAIDY, M.K.ABDUL-MAJID, R.S.KAMEL: Development and Production of T3, Uptake Assay With Macroaggregated Albumine (MAA) Particles as an Adsorbent Agent. (Iraq),

RADIOPHARMACEUTICALS (Oral Presentation)

Tuesday Nov. 21,1989 - Sabar Hall Session 1 (2:00 - 3:30 PM)

Chairman: Prof. M.A.A. AL-EID Co-chairman: Dr. M.A.A. AL-JANABI

- 2:00 1. H.M.ABDEL-DAYEM: Nuclear Medicin Among Other Imaging Modalities: "Competing or Complementing" . (Kuwait) .
- 3:00 2. A.BENZAID, B.SAADA, M.OUENADA, L.DEFOUS: Synthesis, Labelling and Quality Control of Hippuran. (Algeria).
- 3:15 3. S.H.AL-KOURAISHI, A.S.AL-WARITH, A.F.JAWAD: Production of mTc from Titanium Molybdate By Sublimation . (Iraq) .

Wednesday Nov. 22,1989 - Sabar Hall Session 2 (2:00 - 5:00 PM)

Chairman : Dr. K. HAMEED Co-chairman : Dr. K.H. NASHAT

2:00 4. R.M.LAMBRECHT: Cyclotron Produced Radiopharmaceuticals .(Saudi - Arabia) .

- 2:30 5. M.A.A.AL-JANABI, A.H.M.KADEM, H.A.KALEEFA: Dry Distillation of ¹³¹I From Reactor Irradiated TeO₂. (Iraq).
- 2:45 6. K.H.NASHAT, J.M.BADI: A Comparative Study on the Biological Behavior of Three IDA Derivatives Undser the Influence of High Levels of Bilirubin in Blood. (Iraq).
- 3:00 7. H.A.El-ASRAG, M.T.El-KOLALY, E.HALLABA, A.A.EL-MOHTY: Preparation and Stability of Human Serum Albumin Freeze Dried Kits for Tc-99m Labelling: Part I: Preparation of Human Serum Albumin Freeze Dried Kits. (Egypt).
- 3:15 8. H.A.EL-ASRAG, M.T.El-KOLALY, E.HALLABA and A.A.EL-MOHTY:
 Preparation and Stability of Human Serum Albumin Freeze Dried Kits
 for Tc-99 Labelling, Part II: Stability of Human Serum Albumin
 Freeze Dried Kits: Non-Irradiated and Gamma -Irradiated Kits.
 (Egypt).
- 3:30 BREAK
- 4:00 9. M.A.AL-EID, R.A.AL-ATTAR, S.A.AL-MAHDI: Post Radioiodine Therapy Scans Versus Diagnostic Radioiodine Scans in Detection of Thyroid Cancer Metastases . (Iraq) .
- 4:15 10. O.HLDIK, G.BERNHARD, W.BOSSERT, D.NOVOTNY. G.WAGHER, R.MUNZEN, G.J.BEYER: Fission 99Mo 99mTc Generators Isotope Production Technology of the CINR. (GDR).
- 4:30 11. A.OWUNWANNE, S.SADEK, H.M.ABDEL-DAYEM: Experimental Animals for Studying the Use of Radiopharmaceuticals for Detection and Localization of Gastro-Intestinal Bleeding Site in Sheep.(Kuwait).

- 4:45 12. A.H.ELGAZZAR: Pulmonary Scintigraphy in the Diagnosis of Pulmonary Emboli. (Kuwait).
- Thursday Nov. 23,1989 Gilgamish Hall Session 3. (9:00 AM-Noon)
- Chairman : Dr. F.AL- SAMARRAEI Co-chairman : Dr. S.H. AL-QUORAISHI
- 9:00 13. M.IIO: PET SPECT MRI and MRC in Japan . (Japan) .
- 10:00 B R E A K
- 10:30 14. F.HELUS, W.MAIER-BORST: Cyclotron Radionuclides Production and Cyclotron Targetry. (W.Germany).
- 11:00 15. A.OWUNWANNE, A.SHIHAB-ELDEEN, S.SADIK, H.M.ABDEL-DAYEM:
 Application of Radiopharmaceuticals to Study Drug Toxicity in
 Experimental Animals. (Kuwait).
- 11:30 17. B.SAADA, M.HAMILTOUCHE, A.BENZAID: Preparation of Human Serum Albumin Microspheres for Lung Perfusion Studies (ALgeria).
- 11:45 18. A.OWUNWANNE, S.SADEK, C.PALMER, A.H.ABDEL-DAYEM: Nuclear Medicine Technology Training Programme in Kuwait. (Kuwait).

- 1. M.A.A.Al-JANABI, S.K.KHACHADOORIAN: The Production of Tc-99m by Solvent Extraction.(Iraq).
- 2. H.M.A.KARIM, A.K.JABBAR: Preparation and Quality Control of Tc-99m Sn-phosphate CMC Stablized CMC Stablized Colloid for Bone Marrow Studies (Iraq).
- 3. S.A.AL-KOURAISHI, M.E.ZIA, H.HASSAN: Labelling of D, Penicillamine with Tc-99m and Biological Distribution. (Iraq).
- 4. M.A.A.AL-JANABI, H.A.KALEFFA, E.H.ABBAS: The Increase of Radioactive Concentration of NaI -131 Using Alumina Column Chromatography and Ion Exchange Techniques. (Iraq).
- 5. M.A.AL-JANABI, S.K.KHACHADOORIAN, S.O.MOUSSA, Z.M. YOUSIF: Preparation of In 113m and Tc-99m Microaggregated Human Serum Albumin for Liver Scanning. (Iraq).
- 6. A.M.AL-HILLI, K.S.MIRZA, H.A. MUHAMMED: Labelling of Galacturonic Acid with Tc-99m and Investigation of the Biokinetic Behavior. (Iraq).
- 7. M.E.ZIA, S.H.AL-QUORAISHI, A.K.JABBAR, H.H.SAMAWI, H.N.BORZAN: Binding of Tc-99 (Tc-99m) Cysteine to Serum Albumine. (Iraq).
- 8. M.A.A.AL-JANABI, A.H.M.KADEM: Radiochemical Separaration of I-131 from Irradiated Natural "U" and TeO2 by Solvent Extraction Using Dibenzo-18-Crown-6 . (Iraq) .

- 9. N.D.DAHIR, S.R.HESSLWOOD, D.B.JACK: Preparation and Protein Binding of Pentavalent Tc-DMSA. (Iraq).
- 10. Y.SHAFIQ, M.H.S.AL-HISSONI, M.A.JASSIM, M.A.ABDEL-AZEZ, A.M.AL-HILLI: Evaluation of Different Commercially Available Sulphur Colloid Kits used for Liver Scaning (Iraq).
- 11. A.H.ELGAZZAR: The Use of Gallium 67 and Indium -III WBC in the Localization of Abdominal Infection . (Kuwait) .

INDUSTERIAL APPLICATIONS

- 1. M.A.ABUIRJEIE, A.A.ABDEL AZIZ, M.E.ABDEL HAMID : Feasibility Studies on Radiation Sterilization of Cephradine . (Jordan) .
- 2. Z.IDIRI, L.OMARI: 14 MeV Neutron Activation Analysis of Chicken Dung and Dates: Simultaneous Determination of N, Mg, Al, Si, P, CL, Ca and Fe. (Algeria).

